A WHAT IS CLAIMED IS

~~CLAIMS~~

1. Sterilisation apparatus for medical instruments and the like objects which is easy to handle and/or remove and which is mainly formed by a casing provided with a sterilisation boiler and means for performing the sterilisation process, characterized in that the sterilisation apparatus comprises a double-walled boiler whereby fluid such as demineralised water being present between the inner and the outer wall by which a stable temperature of the boiler wall can be achieved as well as steam generated therefrom.

2. Apparatus according to claim 1, characterized in that at least regulators and heating elements in said double boiler walls can provide for a stable fluid temperature.

3. Apparatus according to claim 1 or 2, characterized in that means are present for feeding steam for the sterilisation process pulsatingly into said boiler, as well as means which can also provide a pulsating vacuum in said boiler such that air in the instruments or the like objects which are to be sterilised can be removed.

4. Apparatus according to any of preceding claims 1-3, characterized in that means are present for setting, respectively measuring pressure, temperature, time and output for controlling all phases occurring within said boiler before, during and after the sterilisation process.

5. Apparatus according to claim 4, characterized in that the means are controlled by a process computer which displays various data read-outs digitally and/or alphanumerically and/or graphically, e.g. to an internal or external printing apparatus (printer).

6. Apparatus according to any of the preceding claims, characterized in that a (time) switch clock for use of "stand-by" purposes, such as for heating-up of and maintaining the temperature of said boiler, is available.

7. Apparatus according to any or several of the preceding claims, characterized in that the sterilisation space of the boiler is provided with

lateral supports for a number of standard plateaus on which instruments, whether wrapped or not, and/or bandage substances may be placed.

8. Apparatus according to any or several of the preceding claims, characterized in that the front or feed side of the boiler can be sealed pressure-tight by means of a heat-isolating hinged door provided with an incorporated nut whereby the casing to that end is provided with a swivelable hermetically sealing screw.

9. Apparatus according to claim 8, characterized in that the screw seal is operated by means of an electromotor of which the operating phases are run via said process computer.

10. Apparatus according to any or several of the preceding claims, characterized in that a cylindrical sterilisation boiler is placed symmetrically though non-concentrically within the cylindrical outer boiler, such that in the use-position the volume of the fluid or water space down in the double-walled boiler is considerably larger than up in the boiler.

11. Apparatus according to any or several of preceding claims 1-9, characterized in that a cylindrical sterilisation boiler is placed concentrically within a cylindrical outer boiler.

12. Apparatus according to any of preceding claims 1-9, characterized in that the process computer and a sterilisation apparatus according to claim 10 or 11 are provided in a casing in which also the fluid reservoir with corresponding pump, control appendages, a dry-air connection and a connection to a vacuum line with valves being present.